

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 09-005907 (71)Applicant : FURUKAWA ELECTRIC CO LTD:THE

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(54) PRINTER

(57)Abstract:

PROBLEM TO BE SOLVED: To form a close type printer capable of transferring screen patterns on a substrate correctly.

SOLUTION: In a printer of a contact printing method, after a printing table is so moved that a screen 3 having printing patterns perforated therein and a printed circuit board 9 are positioned correctly, the printing table is lifted up in order that the screen 3 comes in close contact with the upper surface of the printed circuit board 9; subsequently, cream solder paste 2 on the upper surface of the screen 3 is squeezed by the use of a squeegee (a spatula), and with movement of the squeegee 1, the cream solder 2 is extruded on the upper surface of the printed circuit board 9 through the openings 4 of the screen 3 (a). Next, a screen fastening plate 7 is put in contact with the screen 3 and, by keeping this state, electrification is made to electromagnets. Then, the screen fastening plate 7 is magnetized so that the screen 3 is attracted and fixed entirely through the agency of magnetic forces (b). The printed circuit board 9 is lowered in this condition. As such, the screen 3 is held flat without being deflected, resulting in a separation from the printed circuit board 9 at a uniform speed, and also in a transfer of screen patterns onto the printed circuit board 9 with correct (c).

